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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: **VOGEL et al.**

CASE NO: AD6728 US NA

APPLICATION NO.: 09/833,452

GROUP ART UNIT: 1773

FILED: APRIL 12, 2001

EXAMINER: JACKSON, MONIQUE R

**FOR: MULTI-LAYERED, CO-EXTRUDED IONOMERIC DECORATIVE
SURFACING**

AFFIDAVIT UNDER RULE 131

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Sir:

State of Delaware)
) S.S.
County of New Castle)

Randall Allen Vogel, being duly sworn, deposes and says:

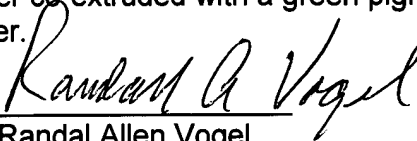
1. I am an applicant of the patent application identified above and a co-inventor of the subject matter described and claimed therein.
2. Prior to October 13, 1999, I had completed my invention as described and claimed in the subject application in this country, as evidenced by the following:

Exhibit A, attached hereto, is a photocopy of the SANO RUN SHEET number 426. The SANO equipment is a co-extruder located at DuPont's Chestnut Run facility in Wilmington, Delaware. The requester of this run is myself ("R. Vogel") and the charge code identifies the DuPont "Surlyn" division within DuPont. The FCL code (991012-4) identifies this particular run as occurring in the year 1999, the tenth month "October" and on the twelfth day. The "4" identifies the run as being the fourth of the day.


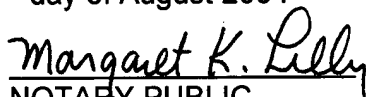
This particular run identifies three co-extruded polymer layers consistent with the instant claim language. Layer 1 ("9910 Nat.") is clear natural Surlyn 9910. The second co-extruded layer 2 ("Surlyn 9910 Pewter") is pigmented Surlyn 9910 containing a 6% pewter colored pigment concentrate (see comments to the right side of the run sheet). The third layer 3 ("Bexloy W720") is a Surlyn® and Polyethylene alloy blend commercially sold by DuPont into the automotive industry. The remaining data identifies the operating parameters,

Art Unit: 1712

Exhibit B, also attached hereto, is a photocopy of the SANO RUN SHEET describing the production of a two layered co-extruded sheet performed on August 13th of 1999. This two-layered embodiment is consistent with the teaching of the reference of record and also illustrates the concept of a top clear Surlyn® layer co-extruded with a green pigmented Surlyn and polyethylene blend layer.


Randal Allen Vogel

Sworn to and subscribed before me
this 5th day of August 2004



NOTARY PUBLIC

MARGARET K. LILLY
NOTARY PUBLIC
STATE OF DELAWARE
My Commission Expires Apr. 28, 2008

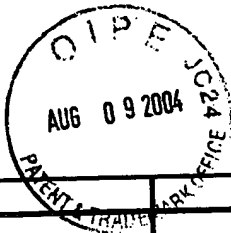


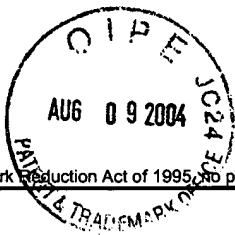
EXHIBIT A

SANO RUN SHEET

No 426

REQUESTER		CHARGE CODE		DATE		PAGE:	
R. Voger		SURLYN		FCL 991012-4			
RESINS (TEMP IN °F)							
EXTRA.A LAYER 1		EXTRA.B LAYER 3		EXTRA.C LAYER 2		EXTRA.D	
TYPE 9910 Nat.		TYPE Bexloy W220		TYPE Surlyn 9910 Reuter		TYPE	
CODE		CODE		CODE 1010		CODE	
GENERIC		GENERIC		GENERIC		GENERIC	
DENSITY		DENSITY		DENSITY		DENSITY	
MAX. TEMP.		MAX. TEMP.		MAX. TEMP.		MAX. TEMP.	
MIN. TEMP.		MIN. TEMP.		MIN. TEMP.		MIN. TEMP.	
SAFETY CONSIDERATIONS:						COMMENTS	
LINE SPEED - FEET PER MINUTE 10.5						3 LAYER	
						LAYER:	
EXTR. A						1 - 9910 Natural	
PRESS.						2 - 9910 w/6% Reuter	
R.P.M.						3 - Bexloy 720 Natural	
AMPS						DIFFICULT 2w -	
P.P.H.						LAYER thickness hard	
MELT °F						to obtain. Film had	
THICK. 5.1						"Eight wing" grain down	
EXTR. B						left center of sheet	
PRESS.						Could not 1.2 cause.	
R.P.M.							
AMPS							
P.P.H.							
MELT °F							
THICK. 4.1							
EXTR. C							
PRESS.							
R.P.M.							
AMPS							
P.P.H.							
MELT °F							
THICK. 19.1							
EXTR. D							
PRESS.							
R.P.M.							
AMPS							
P.P.H.							
MELT °F							
THICK.							
EXTRUDER BARREL °F							
ZONE 1 300		ZONE 1 380		ZONE 1 380		ZONE 1	
ZONE 2 350		ZONE 2 400		ZONE 2 400		ZONE 2	
ZONE 3 375		ZONE 3 450		ZONE 3 450		ZONE 3	
ZONE 4 400		ZONE 4 475		ZONE 4 475		ZONE 4	
ZONE 5 400		ZONE 5 480		ZONE 5 480		ZONE 5	
ZONE 6 400							
EXTRA. HEADS CLOEREN BLOCK DIE °F							
EXTR. A 400		480		LEFT 480			
EXTR. B 480				CENTER 1			
EXTR. C 480				RIGHT			
EXTR. D -							
TRANSFER PIPES							
EXTR. A		EXTR. B		EXTR. C		EXTR. D	
LADP 400		LADP 480		LADP 480		LADP	
LPIPE 1		LPIPE 1		LPIPE		LPIPE	
BLADP		BLADP		CADP		CADP	
				UPIPE		UPIPE	
				BLADP			
CHILL ROLL TEMP.							
PRIMARY 80				ROLL STATION			
SECONDARY 80				HORIZONTAL POSITION 2800		PLUG	
PULL ROLL TORQUE				VERTICAL POSITION 25			
NIP ROLL TORQUE							
SLIT WIDTH =				MODE: CAST FILM		23CA	
				SHEET		GRAVITROL %	
				COATING		A B C D	
				LAMINATION		MAN	

SANO RUN SHEET						DATE 8/13/99	PAGE:
REQUESTER R Vogel			CHARGE CODE Surlyn			FCL 990813-4	
RESINS (TEMP IN °F)							
EXTRA.A	EXTR.B		EXTR.C		EXTR.D		
TYPE Surlyn 9910	TYPE Bexloy W130		TYPE Bexloy 720		TYPE		
CODE w/Powder	CODE Methyl Green		CODE Methyl Green		CODE		
GENERIC	GENERIC		GENERIC		GENERIC		
DENSITY	DENSITY		DENSITY		DENSITY		
MAX. TEMP.	MAX. TEMP.		MAX. TEMP.		MAX. TEMP.		
MIN. TEMP.	MIN. TEMP.		MIN. TEMP.		MIN. TEMP.		
SAFETY CONSIDERATIONS:							COMMENTS
LINE SPEED - FEET PER MINUTE							
EXTR. A	EXTR. B	EXTR. C	EXTR. D				
PRESS. 970	PRESS. 4763	PRESS. 2215	PRESS.				
R.P.M. 50	R.P.M. 90	R.P.M. 65	R.P.M.				
AMPS 4	AMPS 20	AMPS 6	AMPS				
P.P.H.	P.P.H.	P.P.H.	P.P.H.				
MELT °F 454	MELT °F 537	MELT °F 528	MELT °F				
THICK. 6.4	THICK.	THICK. → 33.75	THICK.				
EXTRUDER BARREL °F							
ZONE 1 300	ZONE 1 400	ZONE 1 400	ZONE 1				
ZONE 2 325	ZONE 2 450	ZONE 2 450	ZONE 2				
ZONE 3 375	ZONE 3 475	ZONE 3 475	ZONE 3				
ZONE 4 385	ZONE 4 500	ZONE 4 500	ZONE 4				
ZONE 5 410	ZONE 5 510	ZONE 5 510	ZONE 5				
ZONE 6 425							
EXTRA HEADS		CLOEREN BLOCK	DIE ° F				
EXTR. A 425		510	LEFT 520				
EXTR. B 510			CENTER 500				
EXTR. C 510			RIGHT 510				
EXTR. D							
TRANSFER PIPES							
EXTR. A	EXTR. B	EXTR. C	EXTR. D				
LADP 425	LADP 510	LADP 510	LADP				
LPIPE	LPIPE	LPIPE	LPIPE				
BLADP	BLADP	BLADP	BLADP				
ROLL STATION							
HORIZONTAL POSITION 2900							
VERTICAL POSITION 15							
CHILL ROLL TEMP.							
PRIMARY 70							
SECONDARY 70							
PULL ROLL TORQUE							
NIP ROLL TORQUE							
SLIT WIDTH =							
MODE: CAST FILM ✓							
SHEET							
COATING							
LAMINATION							
PLUG							
BBBAAA							
GRAVITROL %							
A	B	C	D				
45	45	35	Ø				



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Jeanette Hancock

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09/833452

AD6728USNA

Response (8 pages)

Affidavit Under Rule 131 (2 pages)

Exhibit A

Exhibit B

Postcard

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